

CONSTRUCTION SIGN LAYOUT

is at a point where it is visible to approaching traffic.

Two lane highway with one lane closed. Flagger

Notes 1. Variables

= Numerical value of speed limit or 85th percentile.

W = The width of taper

L= Minimum length of taper, or S x W for freeways, expressways, and all other roads with speeds of 45 mph or greater, or W x  $S^2/60$  for urban, residential, and other streets with speeds of 40 mph

or less. Barricade shown to be placed on roadway shall be on a moveable assembly. Sign to be mounted on barricades shall be mounted with the sign bottom on the top of the top barricade bar. Sign shown to be placed on the roadway

shall be placed on skid mounted assemblies.

Delineator drums used for tapering traffic shall be placed at 3 equal spaces.

Delineator drums for tangents shall be spaced at 2 times dimension "S".

Sequencing Arrow Panels

Panels should normally be placed at the beginning of the taper. Where shoulder width does not provide sufficient room, the panel should be moved closer to the work area so that it can be placed on the roadway surface. Type A shall be used on roadways with slow moving traffic speeds and low volume (25 mph and 750 ADT or less). Type B shall be used on roadways with moderate traffic speeds and volumes

(40 mph and 5000 ADT or less). Type C shall be used on roadways with high traffic speeds and volumes (over

40'mph and 5000 ADT). The speed limit shall be re-established. The exact speed limit shall be

determined in the field, dependent on location and conditions.

The reduced speed limit shall be determined dependent on the in place speed limit before construction. The speed limit reduction should not exceed 10 mph below the existing speed limit, unless the design speed of the work zone feature has been reduced below the 10 mph. In this case, the speed limit reduction shall not exceed 30 MPH. Where speed limits are to be reduced more than 30 MPH, a second speed limit sign shall be installed with the desired speed reduction but shall not exceed 30 MPH. The second speed limit sign shall

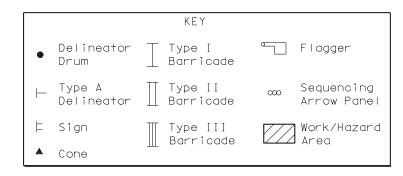
when warning signs are used in urban areas and the signs are not portable, flags shall be installed. The flags shall be 24 inches square, mounted perpendicular to the edges of the diamond sign, and at such a distance above the edge so that when the flag is limp it will not touch the sign. Rural areas

will nŏt require flags.

Existing speed limit signs within a reduced speed zone shall be covered.

Obliterated or covered pavement marking shall be paid for as Obliteration of Pavement Marking. The covering shall be approved by the engineer.
Where necessary, safe speed to be determined by the Engineer.
The contractor has the option of using portable sign supports in lieu of post mounted sign as shown on the standard drawings as specified in section

12. 620-55-96 or R2-1a-24 sign are not required when a pilot car operation is used.



	NORTH DAKOTA NT OF TRANSPORTATION	
10-1-86		
REVISIONS		
DATE	CHANGE	
10-01-99 11-15-99 01-05-01 07-19-02 07-25-03 01-16-04 04-01-04	General Revision Add Taper Width to note Revised note 3 Reversed End Road Work & Speed Limit > Signs Revised R2-1a and W20-1 Revised type F Revised fee sign & Warning sign spacing, Rev. note 6, add note 12	F
12-01-04 06-29-05	PE stamp added Added W3-5 to type F, Rev. Adv. Warning Table, Rev. Note 6	is
04-05-06	Showed signing for opposite direction	

This document was originally issued and sealed by MARK S. GAYDOS, Registration Number PE-4518, on 04/05/06 and the original document is stored at the North Dakota Department of Transportation

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ROAD

CLOSED

R11-2-48

Barricade mounted

**DETOUR** M4-8-24

NORTH M3-1-24

田

\50'

TYPE E

Road Type

Jrban Expressway and Freeway

Rural Expressway and Freeway (70 mph to 75 mph)

Interstate/4-Lane Divided

Maintenance and Surveying

(55 mph to 60 mph)

Δ

Post mounted

720

850

1000

750

720

1350

1500

1000

720

2200

2640

1500